

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): An X-ray analyzer for making an analysis of a sample by directing primary X-rays from a target in an X-ray tube at the sample to excite secondary X-rays from the sample and detecting the excited secondary X-rays, said X-ray analyzer comprising:

a first X-ray filter for filtering out primary X-rays from the target in the X-ray tube;

a second X-ray filter for filtering out X-rays emerging from the first X-ray filter; and

a third X-ray filter for filtering out X-rays emerging from the second X-ray filter; and

an X-ray detector for detecting secondary X-rays from the sample,

wherein said first through third X-ray filters are located between the target in the X-ray tube and the sample.

Claim 2 (Original): The X-ray analyzer of claim 1, wherein said third X-ray filter absorbs X-rays which are excited by said primary X-rays and produced from one of said first and second X-ray filters.

Claim 3 (Original): The X-ray analyzer of claim 1, wherein said second X-ray filter absorbs X-rays which are excited by said primary X-rays and produced from said first X-ray filter.

Claim 4 (Currently Amended): An X-ray analyzer for analyzing cadmium or lead contained in a sample by directing primary X-rays from a target in an X-ray tube at the sample to excite secondary X-rays from the sample and detecting the secondary X-rays, said X-ray analyzer comprising:

~~an plural X-ray filter~~ filters for absorbing energies lower than said primary X-rays (XH) having energies higher than K-line of said cadmium to irradiate the sample only

with the high-energy primary X-rays (XH), the X-ray filter being located between the target in the X-ray tube and the sample; and

an X-ray detector for detecting secondary X-rays from the sample.

Claim 5 (Original): An X-ray analyzer of claim 1 or 2,
wherein the target in the X-ray tube consists of rhodium,
wherein said first X-ray filter consists of zirconium,
wherein said second X-ray filter consists of one of copper, zinc, and nickel,
and
wherein said third X-ray filter consists of molybdenum.

Claim 6 (Original): An X-ray analyzer of claim 1 or 2,
wherein the target in the X-ray tube consists of rhodium,
wherein said first X-ray filter consists of one of copper, zinc, and nickel,
wherein said second X-ray filter consists of zirconium, and
wherein said third X-ray filter consists of molybdenum.

Claim 7 (Original): An X-ray analyzer of claim 1 or 3,
wherein the target in the X-ray tube consists of rhodium,
wherein said first X-ray filter consists of one of copper, zinc, and nickel,
wherein said second X-ray filter consists of molybdenum, and
wherein said third X-ray filter consists of zirconium.

Claim 8 (Original): An X-ray analyzer of claim 1 or 2,
wherein the target in the X-ray tube consists of molybdenum,
wherein said first X-ray filter consists of molybdenum,
wherein said second X-ray filter consists of one of copper, zinc, and nickel,
and
wherein said third X-ray filter consists of molybdenum.